

What is claimed is:

1. A projecting direction control system for a vehicle headlamp comprising:

5 a vehicle-posture detecting means for detecting variation in the posture in the traveling direction of a vehicle;

a light projection control means for controlling the direction of optical axis of light projected from a vehicle headlamp in response to variation in the vehicle posture;

10 a wheel-speed detecting means for detecting left and right wheel speeds, and

a posture decision means for calculating centrifugal force from the left and right wheel speeds obtained by the wheel-speed detecting means, difference between the wheel speeds, 15 and characteristic information of the vehicle including vehicle width and vehicle weight, so as to recognize a rolling condition.

2. A projecting direction control system for a vehicle headlamp according to Claim 1, further comprising a drive means,

20 wherein the drive means changes the direction of the optical axis of light projected from the headlamp, in a vertical direction, receiving a signal from the light projection control means.

25 3. A projecting direction control system for a vehicle headlamp according to Claim 1, wherein the posture decision

means calculates the centrifugal force while the vehicle is turning by obtaining the product of the left wheel speed or right wheel speed and the difference between the left and right wheel speeds and multiplying the product by the ratio of vehicle
5 weight to vehicle width.

4. A projecting direction control system for a vehicle headlamp according to Claim 1, wherein a control range or a control response of the projecting direction involved with
10 the vehicle headlamp is restricted, when centrifugal force is decided by the posture decision means to be great.

5. A projecting direction control system for a vehicle headlamp according to Claim 4, wherein the posture decision
15 means decides that the centrifugal force is great, when the centrifugal force exceeds a predetermined threshold.

6. A projecting direction control system for a vehicle headlamp according to Claim 1,
20 wherein the optical axis of light projected from the headlamp is controlled, when the vehicle is decided to be turning by the posture decision means.

7. A projecting direction control system for a vehicle headlamp according to Claim 1,
25 wherein the posture decision means performs the process

of deciding a turning direction from a sign indicating the difference between the left and right wheel speeds;

when the vehicle is decided to be turning to the left, the optical axis of light projected from the left headlamp is controlled, and

when the vehicle is decided to be turning to the right, the optical axis of light projected from the right headlamp is controlled.

10 8. A projecting direction control system for a vehicle headlamp according to Claim 7,

wherein the optical axis of light projected from the left headlamp is controlled not to be excessively tilted upward, when the vehicle is decided to be turning to the left,

15 the optical axis of light projected from the right headlamp is controlled not to be excessively tilted upward, when the vehicle is decided to be turning to the right.